

PROJECT DESCRIPTION

GENERAL
THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 145 (SWEET AIR ROAD) AND MANOR ROAD IN BALTIMORE COUNTY, MD 145 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION
THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FOUR PHASE, FULL TRAFFIC ACTUATED MODE.

CONTROLLER REQUIREMENTS
INSTALL NEW BASE MOUNTED CABINET AND FOUNDATION. THE SHA SIGNAL SHOP WILL INSTALL THE CONTROLLER, ALL ASSOCIATED HARNESSES AND, FOUR CHANNEL LOOP DETECTOR AMPLIFIER AND ONE (1) VIDEO DETECTION INTERFACE EQUIPMENT WITHIN THE CABINET.

PHONE DROP
THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT 410-787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #4 / OOTS ARE AS FOLLOWS:

District #4
Ms. Erin Kuhn
Assistant District Engineer - Traffic
Phone: 410-321-2781

Mr. Michael Pasquarillo
District Utility Engineer
Phone: 410-321-2841

Mr. Andre Futrell
Assistant District Engineer - Maintenance
Phone: 410-321-2761

Mr. Donald Schaefer
Assistant District Engineer - Construction
Phone: 410-321-2821

Office Of Traffic & Safety

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
410-787-7630

Mr. Edward Rodenhizer
Team Leader Signal Operations
Phone: 410-787-7650

Mr. Eugene Bailey
Team Leader Sign Operations
410-787-7670

The Power Company Representative Is:
Baltimore Gas & Electric Company
7317 Parkway Drive South
Hanover, MD 21076
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

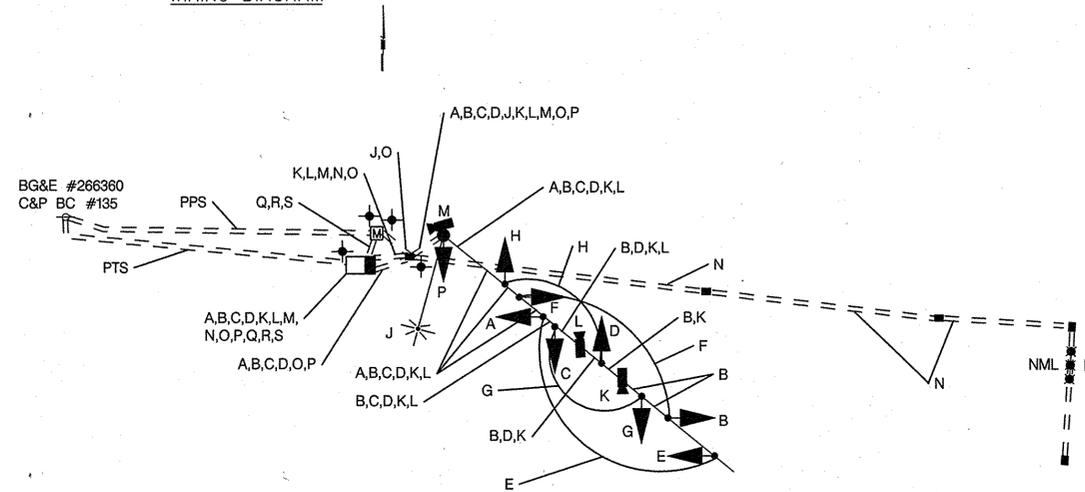
ITEM NO.	QUANTITY	DESCRIPTION
9016	1 EA	[UPDATED] FOUR CHANNEL DETECTOR AMPLIFIER
9044	1 EA	[UPDATED] CONTROLLER CABINET SIZE 6
9086	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9570	30 SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN: 1 EA - SHIELD ASSEMBLY (30 IN. x 51 IN.) *EAST, MD 145, RIGHT ARROW* 1 EA - SHIELD ASSEMBLY (48 IN. x 75 IN.) *EAST, MD 145, LEFT ARROW*
9571	86 SF	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN: 1 EA - SHIELD ASSEMBLY (30 IN. x 51 IN.) *WEST, MD 145, RIGHT ARROW* 1 EA - SHIELD ASSEMBLY (48 IN. x 75 IN.) *WEST, MD 145, LEFT ARROW* 1 EA - D-3(1) (96 IN. x 16 IN.) *MANOR RD* DUAL FACED 2 EA - D-3(1) (96 IN. x 16 IN.) *SWEET AIR RD* 3 EA - R10-11b (24 IN. x 24 IN.)

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	2 EA	Maint. of Traffic
2002	1 CY	TEST PIT EXCAVATION
5001	150 LF	5 IN. HEAT APPLIED WHITE OR YELLOW PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5005	15 LF	24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
8001	27 EA	12 INCH LED SIGNAL HEAD SECTION
8007	1 EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE
8018	1 EA	MAST ARM POLE & 70 FOOT MAST ARM ANY *T* DIMENSION
8021	1 EA	NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000 FT.
8022	1 EA	REMOVE & DISPOSE MATERIAL & EQUIPMENT PER ASSIGNMENT
8026	3 EA	VIDEO DETECTION CAMERA & CABLE UP TO 500 FT
8035	575 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8036	110 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED
8037	40 LF	WOOD SIGN SUPPORTS UP TO 4 x 6
8039	116 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8041	100 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8043	1 EA	METERED SERVICE PEDESTAL EMBEDDED
8045	75 LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN
8047	5 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8056	125 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
8057	225 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
8058	70 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG) TC
8065	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

WIRING DIAGRAM



- A** ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
- B** ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- J** ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG), TC
- K** CONTROL CABLE - 150 FT. VIDEO DETECTION CAMERA TO CONTROLLER
- L** CONTROL CABLE - 100 FT. VIDEO DETECTION CAMERA TO CONTROLLER
- N** NON-INVASIVE DETECTOR, 500, FT. LEAD IN CABLE
- O** NO. 6 STRANDED BARE COPPER GROUND WIRE
- Q** ELECTRICAL CABLE, 1 CONDUCTOR (NO. 4 AWG) THHN/THWN
- R** PROPOSED POWER SERVICE, FINAL CONNECTION TO BE MADE BY BG&E.
- S** PROPOSED TELEPHONE SERVICE TO BE INSTALLED BY OTHERS
- NML** NON-INVASIVE MICROLOOP PROBE SET
- +** PROPOSED GROUND ROD - 3/4 IN. DIAMETER X 10 FOOT LENGTH

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9000	1 EA	CONTROLLER AND CABINET

THE CONTRACTOR SHALL CONTACT THE SHA SIGNAL SHOP TO SALVAGE THE POLE MOUNTED CABINET AND CONTROLLER. ALL OTHER REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

	1	2	3	4	5	6	7	8	9	
	(R) (Y) (G)									
PHASE 2 & 6	G	G	G	G	R	R	R	R	R	↑
PHASE 2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	↑
PHASE 4 & 8	R	R	R	R	G	G	G	G	G	↓
PHASE 4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	↓
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	↑

TOD No. AT915-39
SHA No. BA617A54/B54

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 145 (SWEET AIR ROAD) AT MANOR ROAD
INTERSECTION IMPROVEMENTS

GENERAL INFORMATION

SCALE: NONE	ADVERTISED DATE: 7/2008	CONTRACT NO.: AT9155185
DESIGNED BY: MCG	COUNTY: BALTIMORE	
DRAWN BY: MCG	LOGMILE: 03014506.83	
CHECKED BY: BAB	TMS NO.: I-987	
F.A.P. NO.: SEE TITLE SHEET	TOD NO.:	
TS NO. 784 D-GI	DRAWING SG-02 OF 02	SHEET NO. 6 OF 6

BY: thompson

STV Incorporated
engineers/architects/planners/construction managers
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